CLAIMS

1. A method of making a rare-earth alloy powder for use to produce a rare-earth sintered magnet, of which a main phase has a composition represented by $R_2T_{14}A$ (where R is one of the rare-earth elements including Y; T is either Fe alone or a mixture of Fe and a transition metal element other than Fe; and A is either boron alone or a mixture of boron and carbon), the method comprising the steps of:

preparing a first rare-earth rapidly solidified alloy,

which has a columnar texture with an average dendritic width

falling within a first range, by subjecting a melt of a first

rare-earth alloy with a first composition to a rapid cooling

process;

preparing a second rare-earth rapidly solidified alloy,

which has a columnar texture with an average dendritic width

that is smaller than that of the first rare-earth rapidly

solidified alloy and that falls within a second range, by

subjecting a melt of a second rare-earth alloy with a second

composition to the rapid cooling process;

20 making a first rare-earth alloy powder by pulverizing the

first rare-earth rapidly solidified alloy;

making a second rare-earth alloy powder by pulverizing the second rare-earth rapidly solidified alloy; and

making a powder blend including the first and second second rare-earth alloy powders.

- 2. The method of claim 1, wherein the first range is equal to or greater than the mean particle size of the first rare-earth alloy powder, and the second range is less than the mean particle size of the second rare-earth alloy powder.
 - 3. The method of claim 1 or 2, wherein the first range is from 3 μ m through 6 μ m.
- 4. The method of one of claims 1 to 3, wherein the second range is from 1.5 μ m through 2.5 μ m.
 - 5. The method of one of claims 1 to 4, comprising the steps of: obtaining a first rare-earth alloy coarse powder by coarsely pulverizing the first rare-earth rapidly solidified

20

alloy; obtaining a second rare-earth alloy coarse powder by coarsely pulverizing the second rare-earth rapidly solidified alloy; making a blended coarse powder by blending the first and second rare-earth alloy coarse powders together; and obtaining the powder blend having a mean particle size of 1 μ m to 10 μ m by finely pulverizing the blended powder.

- 6. The method of one of claims 1 to 4, comprising the steps of: making a first rare-earth powder having a mean 10 particle size of 1 μ m to 10 μ m from the first rare-earth rapidly solidified alloy; making a second rare-earth powder having a mean particle size of 1 μ m to 10 μ m from the second rare-earth rapidly solidified alloy; and obtaining the powder blend by blending the first and second rare-earth powders together.
 - 7. The method of one of claims 1 to 6, wherein the first and second rare-earth alloy powders included in the powder blend have a volume percentage ratio of 95:5 through 60:40.

- 8. The method of one of claims 1 to 7, wherein the second rare-earth rapidly solidified alloy is made by a strip casting process.
- 9. The method of one of claims 1 to 8, wherein the first rare-earth rapidly solidified alloy is made by a strip casting process.
- 10. The method of one of claims 1 to 8, wherein the 10 first rare-earth rapidly solidified alloy is made by a centrifugal casting process.
- 11. The method of one of claims 1 to 9, wherein the first rare-earth rapidly solidified alloy includes 30 mass% to 32 mass% of R.
 - 12. The method of one of claims 1 to 11, wherein the second rare-earth rapidly solidified alloy includes 33.5 mass% to 35 mass% of R.

13. A method for producing a rare-earth sintered magnet, of which a main phase has a composition represented by $R_2T_{14}A$ (where R is one of the rare-earth elements including Y; T is either Fe alone or a mixture of Fe and a transition metal element other than Fe; and A is either boron alone or a mixture of boron and carbon), the method comprising the steps of:

preparing a rare-earth alloy powder by the method of one of claims 1 to 12;

compacting a powder material, including the rare-earth alloy powder, thereby obtaining a compact; and sintering the compact.